

DERWENT-ACC-NO: 1997-117098  
DERWENT-WEEK: 199711  
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TITLE: Reduced growth in tyre curing bladder - using  
1,3-bis(citraconimidomethyl) benzene in place of sulphur for  
improving aged  
flex life.

PATENT-ASSIGNEE: ANONYMOUS [ANON]

PRIORITY-DATA: 1996RD-0393049 (December 20, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
RD 393049 A	January 10, 1997	N/A
003	B29C 000/00	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
RD 393049A	N/A	1996RD-0393049
	December 20, 1996	

INT-CL\_(IPC): B29C000/00; C08K000/00

ABSTRACTED-PUB-NO: RD 393049A

BASIC-ABSTRACT: 'Exxpro' (RTM) curing bladders consisting of  
a brominated  
copolymer of isobutylene and paramethyl styrene, although  
showing significant  
life improvements over regular butyl tyre curing bladders,  
have a tendency to  
grow in size during use. Using 'Perkalink' (RTM) 900  
[1,3-bis(citraconimidomethyl)benzene] in place of sulphur,  
for improving aged  
flex life, overcomes this problem. Using Perkalink 900 at  
levels of 0.25, 0.50  
and 0.75 phr mixed in the masterbatch showed tension sets  
better than the  
regular Exxpro bladder cpd. and equal to or better than the  
regular butyl  
bladder cpd. The tension sets used were 300% and 200% on oven  
aged smaples  
(aged 48 hours at 177 deg. C), and under 200% extension in a

steam autoclave  
for 24, 48 and 72 hours under 170 deg. C steam.

ADVANTAGE - The Perkalink not only improves the growth properties but also gives equal or improved oven aged properties. DeMattia flex growth tests at 150 deg. C using non-pierced samples showed significant improvement in flex life for the Perkalink modified cpds.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

REDUCE GROWTH TYRE CURE BLADDER DI BENZENE PLACE SULPHUR  
IMPROVE AGE FLEX LIFE

DERWENT-CLASS: A13 A17 A95 E14

CPI-CODES: A08-C07; A10-E04A; A12-T01A; E07-D03;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

F011 F012 F013 F015 F019 F422 F499 G012 G100 H2  
H212 J5 J523 L9 L930 L999 M210 M211 M240 M282  
M311 M322 M342 M373 M392 M413 M510 M522 M531 M540  
M781 M903 M904 Q130 Q140 R038

Markush Compounds

199711-D5601-U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; R00966 G0055 G0044 G0033 G0022 D01 D02 D12 D10 D51  
D53 D58

D84 ; R01417 G0113 G0102 G0022 D01 D02 D11 D10 D12 D19  
D18 D31 D51

D53 D58 D76 D89 ; H0022 H0011 ; M9999 M2233 M2222 ;  
H0124\*R ; L9999

L2391 ; L9999 L2073 ; M9999 M2073 ; P1150 ; P1741

Polymer Index [1.2]

018 ; ND00 ; ND01 ; N9999 N6326 ; N9999 N6439 ; B9999  
B3872 B3838

B3747 ; B9999 B3918 B3838 B3747 ; B9999 B4682 B4568 ;  
Q9999 Q7932

Q7885 ; Q9999 Q7761 ; J9999 J2904 ; K9449 ; B9999 B3792  
B3747 ;

B9999 B4080 B3930 B3838 B3747 ; B9999 B3907 B3838 B3747

Polymer Index [1.3]  
     018 ; Br 7A ; H0157  
 Polymer Index [1.4]  
     018 ; E04 E00 D01 D11 D10 D23 D22 D32 D75 D41 D54 D51 D57  
 D59 D93  
     F72 ; A999 A157\*R  
 Polymer Index [1.5]  
     018 ; R05085 D00 D09 C\* 4A ; A999 A237  
 Polymer Index [1.6]  
     018 ; G3474 D01 D02 D50 G2197 G2186 ; A999 A340\*R ; A999  
 A771 ;  
     S9999 S1376  
 Polymer Index [1.7]  
     018 ; R00122 D01 D11 D10 D50 D93 F36 F35 ; R01520 D00 F20  
 Zn 2B  
     Tr O\* 6A ; A999 A146 ; A999 A771 ; A999 A157\*R  
 Polymer Index [1.8]  
     018 ; R01005 D01 D24 D22 D34 D41 D43 D50 D77 D93 F00 F01  
 F15 ; A999  
     A146 ; A999 A771  
 Polymer Index [2.1]  
     018 ; H0124\*R ; L9999 L2391 ; L9999 L2073 ; M9999 M2073 ;  
 S9999  
     S1434  
 Polymer Index [2.2]  
     018 ; ND05 ; J9999 J2904 ; J9999 J2948 J2915 ; Q9999  
 Q9256\*R Q9212  
     ; N9999 N7261 ; J9999 J2926 J2915

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-037690